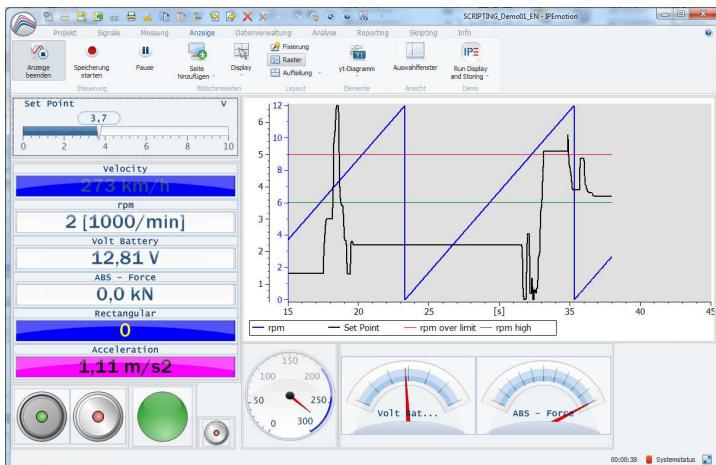


```
which helps to solve  
if  
  problem == false  
  solution == true  
  solution = GetSolutionFromTechnikMedia()  
  if (problem == true)  
  solution = GetSolutionFromTechnikMedia();  
  open solution:
```

User Manual

IPEmotion Plug In OPC V01.00

IPEMOTION



technikmedia

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1. General Information

This manual describes the usage of the **technikmedia IPEmotion Plug In OPC**. Please read this manual carefully to get to know the operating and to learn more about the functions and special features. This manual also contains information for installing and removing the software.

1.1. Version

1.1.1. User Manual

This manual has the version 01.00.

1.1.2. Technikmedia IPEmotion Plug In OPC

The description in this documentation refers to the current release with the version number 00.00.01

1.1.3. IPEmotion

The description in this documentation refers to the current release with the version number 2014 R1.4.

2. Introduction

The **technikmedia IPEmotion Plug In OPC** offers you the ability to read data from or write data into OPC server. The actual version is able to connect to local server or in most cases to remote server via OPC tunnel. The direct connect to remote server may be work but is not yet implemented.

The actual version support OPC Data Access Specification V 2.0. The plug in is able to read the following data types

- Bit
- 8 bit integer
- 8 bit unsigned integer
- 16 bit integer
- 16 bit unsigned integer
- 32 bit integer
- 32 bit unsigned integer
- 32 bit float
- 64 bit float
- Text string

All data types above, except text string, are writable.

3. Setting Up And Removing

3.1. System Requirements

The minimum hardware and platform requirements for the application of the **technikmedia IPEmotion Plug In OPC** are outlined below.

3.1.1. Hardware

The minimum hardware requirements correspond to those of IPEmotion.

3.1.2. Platforms

The Plug In can be run under the following operating systems:

- Windows 7 (32 Bit) (or under 64 Bit system as a 32 Bit application)

3.2. Installation

The following chapters guide you through the installation process of the OPC Plug In.

technikmedia IPEmotion Plug In OPC needs administrator rights during installation.

The installation of the plug in is based on an installation wizard that guides you through the setup process step by step.

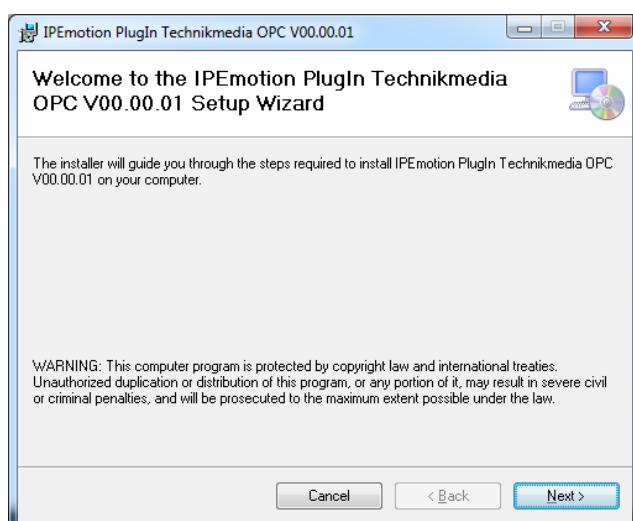
To install the plug in:

1. Double-click the file

Setup IPEmotion Plugin Terchnikmedia OPC Vxxx.exe

to start the installation wizard.

2. **Welcome screen:** This is the first screen in the plug in installation wizard.

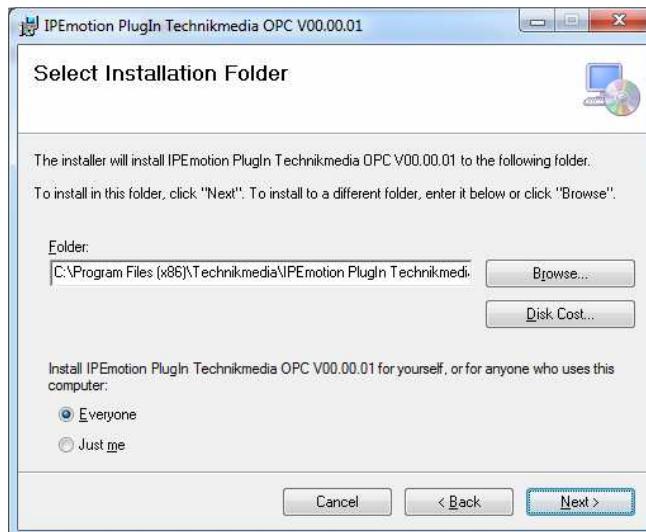


Click **Next** to continue.

3. **License Agreement:** If you agree with the license agreement, check the radio button **I Agree** and press **Next**.



4. **Installation folder:** Accept the default installation location for the plug in. To select another location click **Browse...** and select another folder.

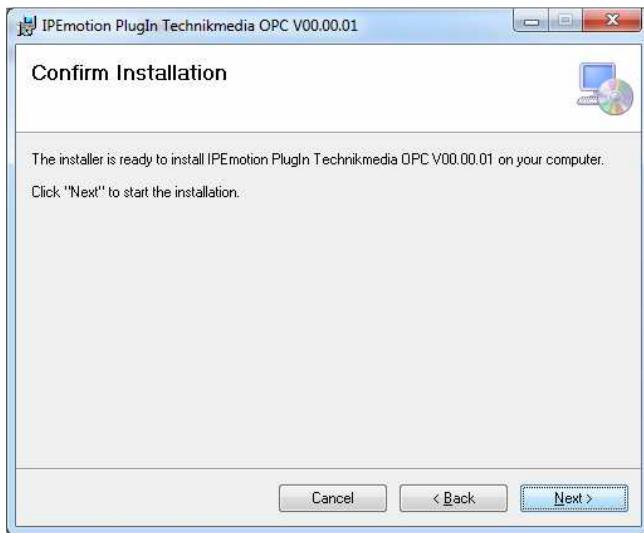


To get information about available disk space click **Disk Cost...**

By default the plug in is available for anyone. If you want to use it for yourself select **Just me**.

Click **Next** to continue.

5. **Confirm installation:** This screen indicates that the plug in is ready to install.



Click **Next** to start installation.

6. **Installation:** A progress bar is shown during the installation process.
7. **Installation complete:** After successful installation this screen is shown.

Click **Close** to finish installation.

3.3. Uninstall

Windows 7:

1. Open Programs and Features by clicking the **Start** button , clicking **Control Panel**, clicking **Programs** and then clicking **Programs and Features**
2. Select the **IPEmotion Plugin Technikmedia OPC Vxxx** and then click **Uninstall**.
3. Click **Yes** to confirm removal.

After the successful removal of the plug in the program has been removed from your computer and is no longer indicated in the program list.

4. Licenses

4.1. Demo License

The demo license allows trying out the plug in for 30 days.

After you start IPEmotion and add an OPC System the first time to your configuration a message window opens. The window shows the days left for testing.



If the license period is expired, the plug in does not show acquisition data any more. When starting an Acquisition, all devices in a plug in system will be deactivated.



4.2. Reseller License

As a reseller you can get a license that is dedicated to demonstrate the plug in. It is not for commercial use. After adding the first OPC system an info window opens. Apart from that there is no limitation.



4.3. Full Version

With your full version you have no limitations.

5. Working with technikmedia IPEmotion OPC Plug In

The following chapters offer an overview about the usage of the plug in to handle connected OPC systems. It shows how to configure connections and acquire data. The documentation of analysing and managing the acquired data will not be part of this manual. To get further information for these topics see IPEmotion documentation.

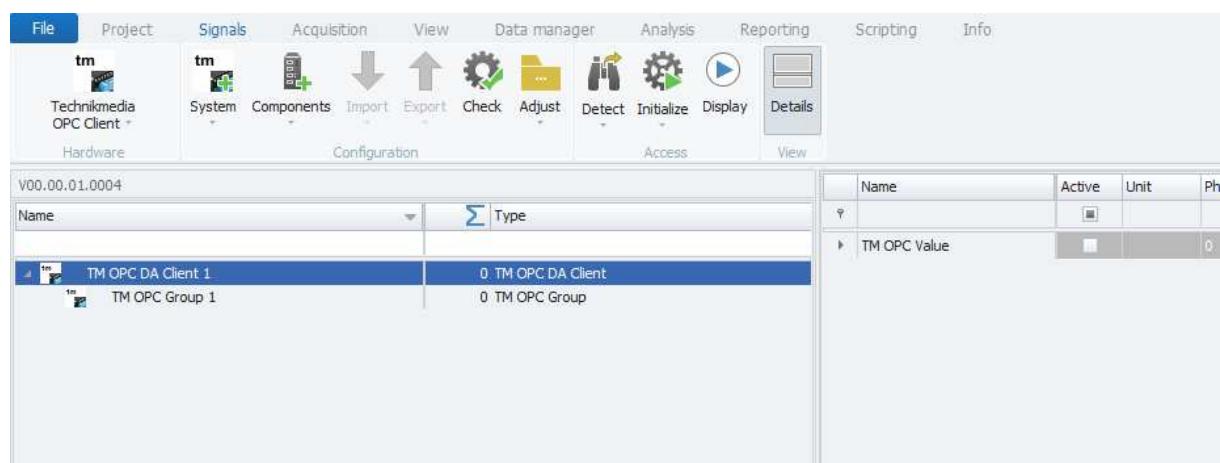
This documentation describes the special features and functions of the plug in. Common IPEmotion functionalities are not part of this documentation. To get further information, see the IPEmotion documentation.

5.1. Adding a OPC system to IPEmotion

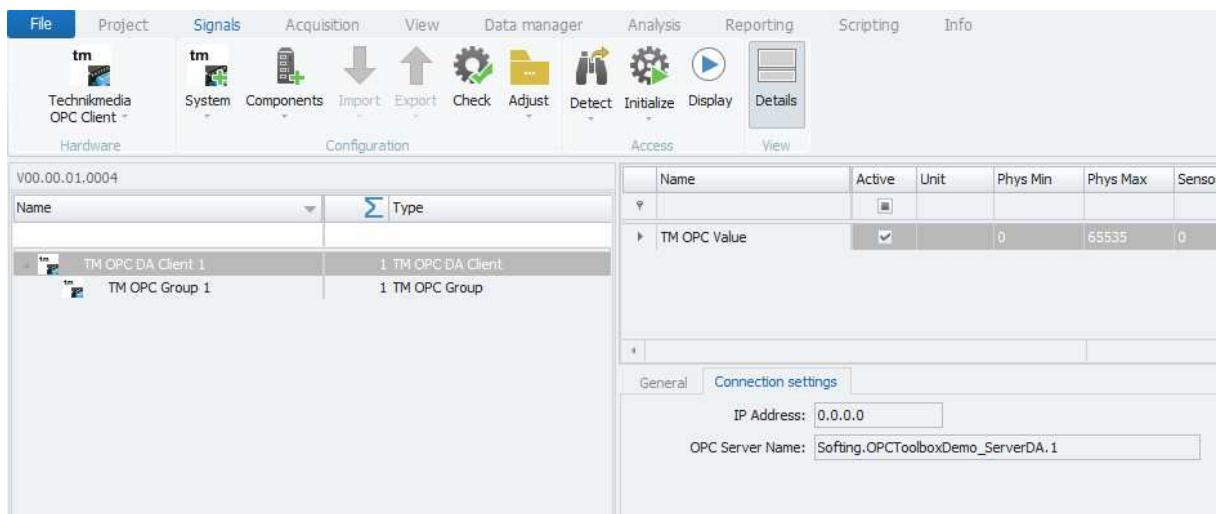
First select the **technikmedia OPC** plug in in the IPEmotion **Hardware** selection and then the **TM OPC DA Client** in the **System** selection.



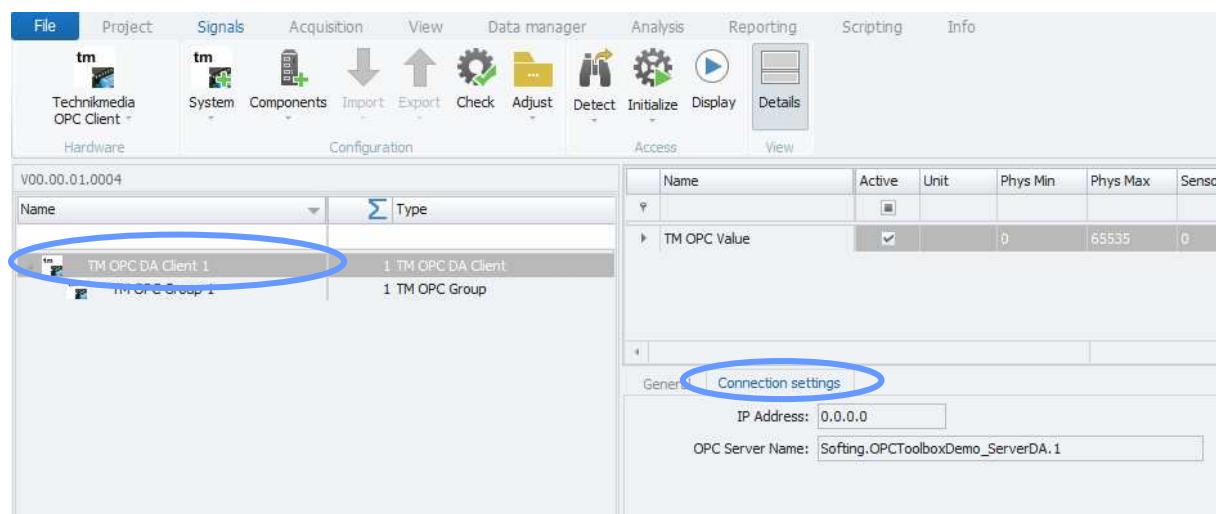
The **TM OPC DA Client** is an IPEmotion MAL system that represents a connection to the OPC DA server. After selecting the **TM OPC DA Client** automatically a first group and a first value element are created.



A **TM OPC Group** is a collection of OPC values with a user defined sampling rate. A **TM OPC Value** represents one OPC server DA item.



In the plug in every OPC client system has characteristic parameters you have to configure. You find the configuration by clicking on the **TM OPC DA Client** system in the tab **Connection settings**.



The following parameters can be configured:

IP Address

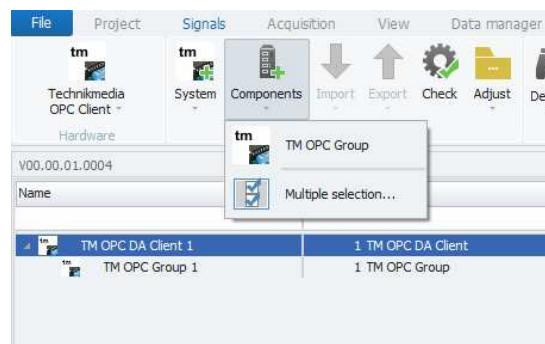
IP Address of the OPC server host. If the server is on the local host the IP Address is 0.0.0.0

OPC Server Name

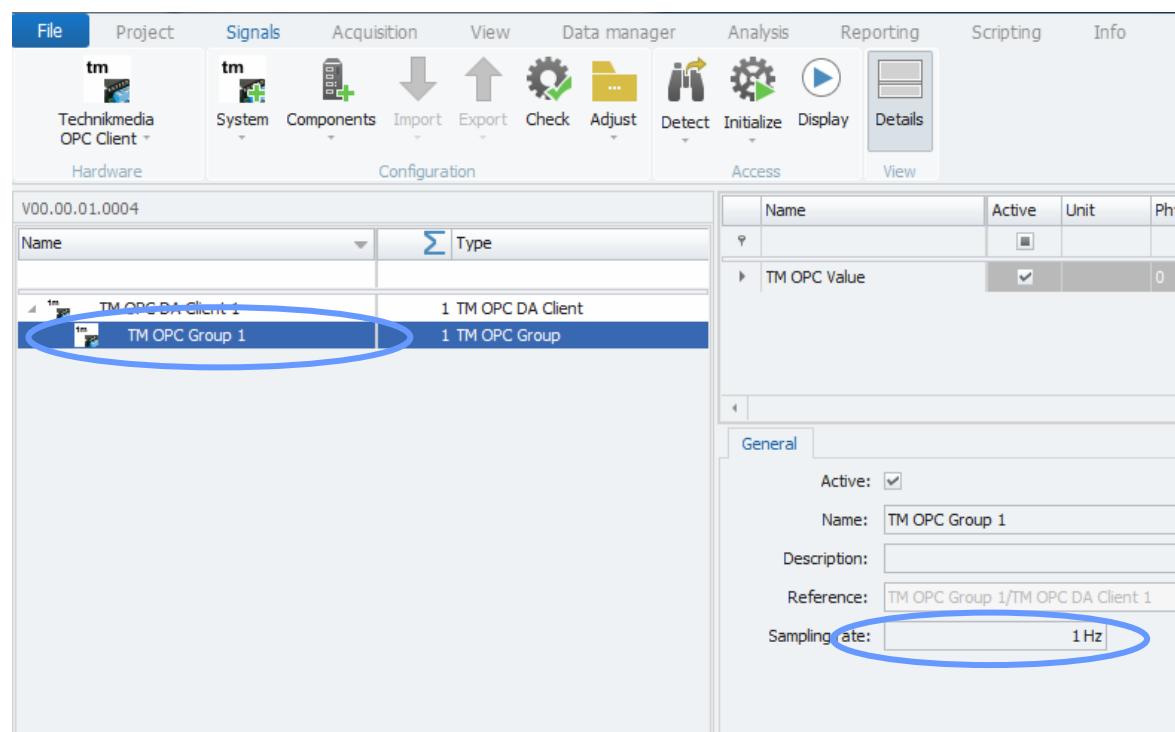
The name of the OPC server.

5.1.1. Adding OPC groups

Every TM OPC system (connection to an OPC server) has one or more groups to collect values with different sampling rates. To add a group in IPEmotion you have to add a **TM OPC Group** by clicking on the **TM OPC Group** item in the IPEmotion **Components** selection.

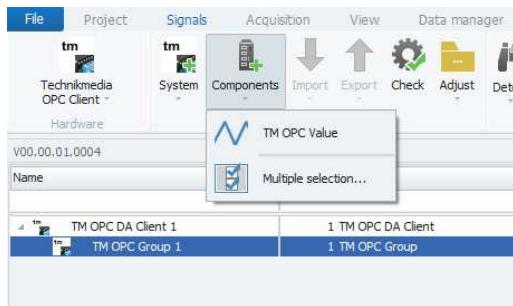


The individual sampling rate of a group is defined by the setting in the Tab **General**.

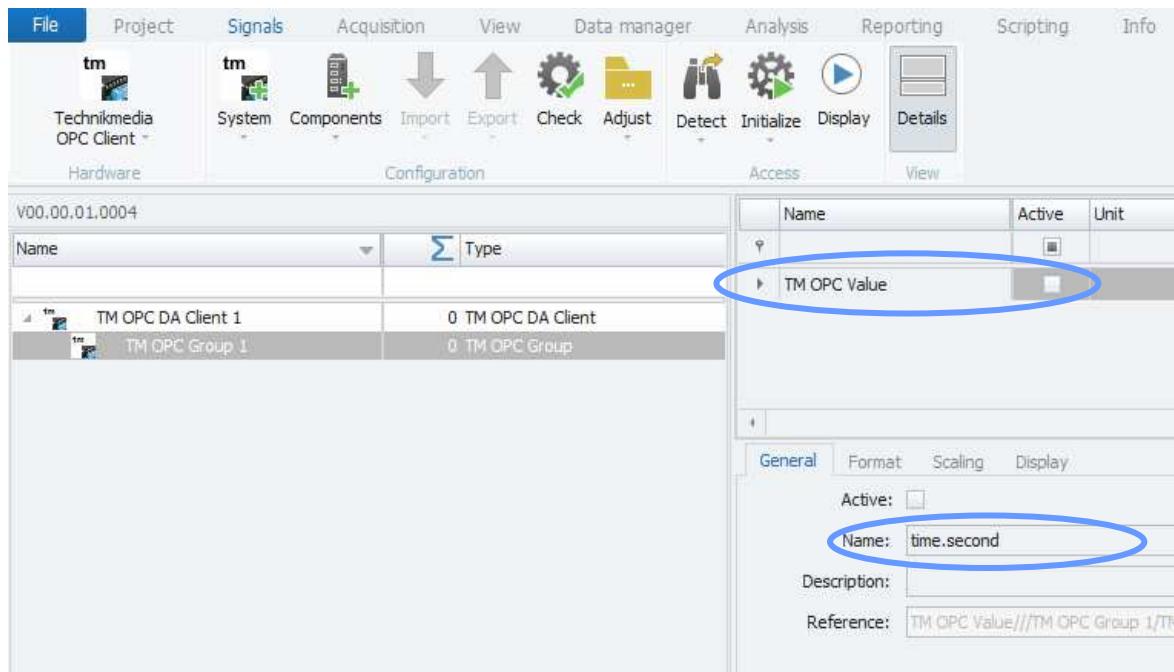


5.1.2. Adding OPC values

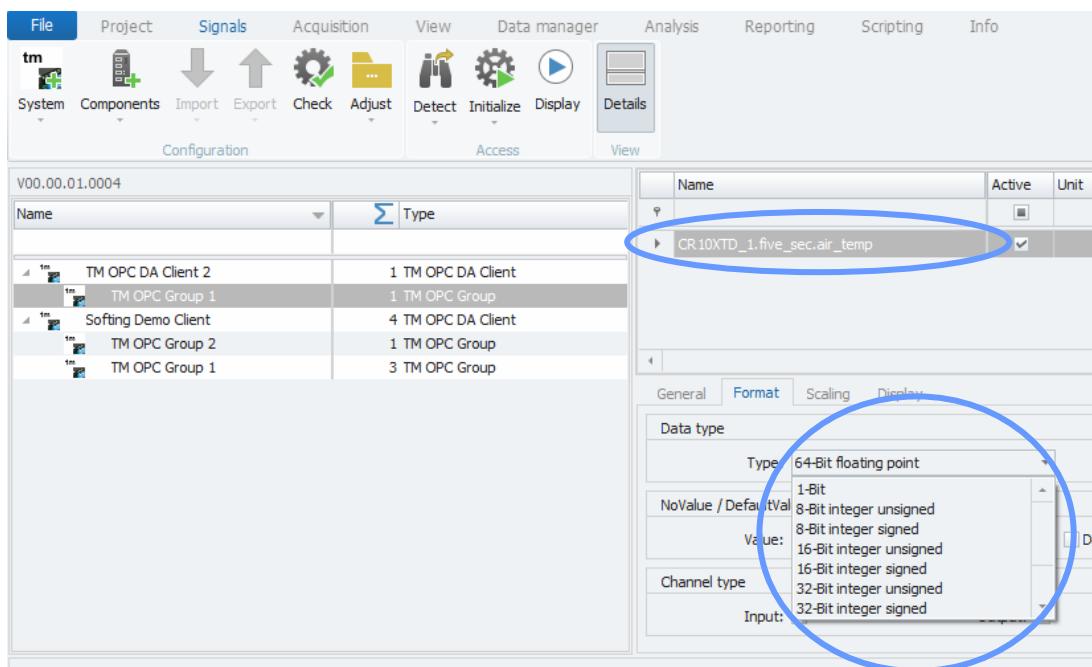
To read or write DA items from a server you have to add **TM OPC values** to a group, so first select your **OPC Group** and then click on the **IPEmotion Components** selection. Select **TM OPC Value**. A new value will be added to your group.



Then you have to select the **TM OPC Value** and enter the DA item name that is used in the OPC server (e.g. **time.second**).

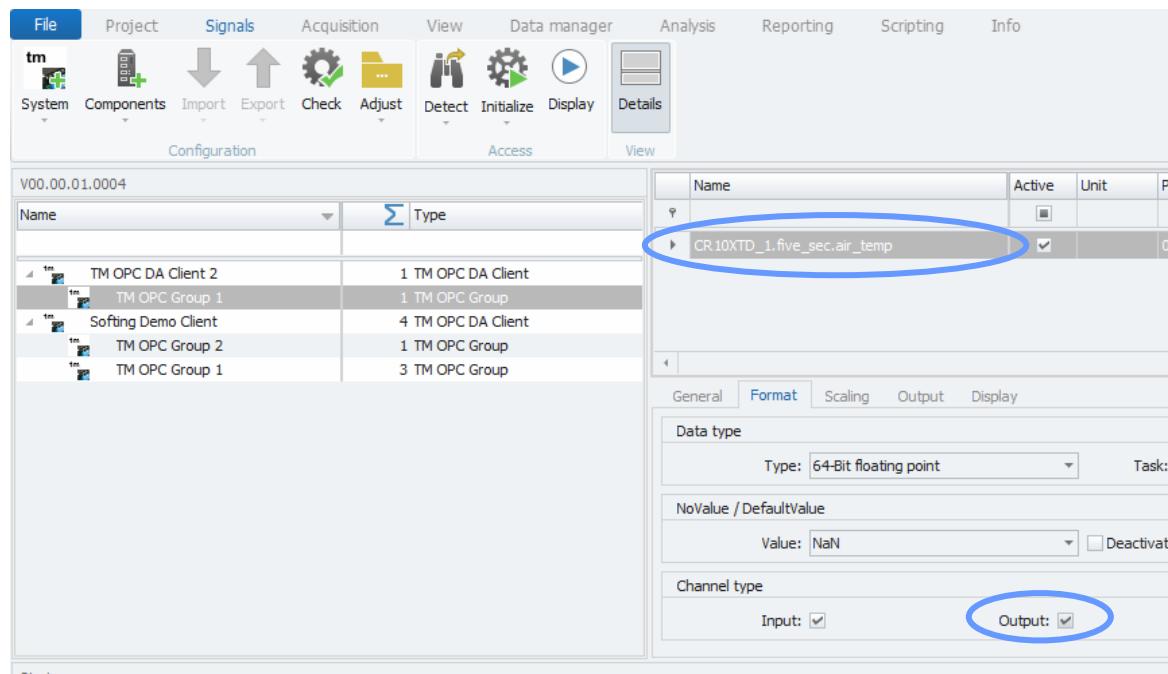


In the next step you have to define the data type of your value. Select the tab **Format** and select the data type in the selection box **Type**.



Hint: If you can not see the tab **Format**, enable the extended tabs in IPEmotion with **File ->Options ->Basic Settings ->(Button) Expert Mode -> Check Extended tabs**

A **TM OPC Value** by default is only readable. To make it writeable in IPEmotion you have to set the value also as an output. Select the **TM OPC Value** you want to make writeable. Then select the Tab **Format** and check the Checkbox **Output**.



Attention: If the data type of your value is of type **Text channel**, no writing will be executed!